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| Title | **Assemble electrical machines** | | |
| Level | **2** | **Credits** | **23** |

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| Purpose | This competency standard is intended for those who carry out electrical operations. People holding credit for this competency standard are able to: Plan and prepare for assembling; assemble machine and complete work. |

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| Classification ISCED | 0713 Electricity and energy |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

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| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
| **F1:**  **Plan and prepare for assembling** | **P1-** Identify and obtain safety and other regulatory requirements for assembling  **P2-** Prepare tools and equipment | **K1-** Safety requirements; Specifications; hazard identification  **K2-** Types of tools, equipment and material |
| **F2:**  **Assemble machine** | **P1-** Confirm assembling specifications  **P2-** Assemble and connect electrical circuit with ports  **P3-** Joint cables and connections  **P4-** Confirm assembling | **K1-** Assembling requirements  **K2-** Concept of neutral, phase and earth; Input and Output Safety precautions  **K3-** Types and application of different jointing methods  - tin (solder), crimped terminals  - ferrules and shrinking nut  - bolt & screw terminal  **K4-** Supervisor and/or client communication |
| **F3:**  **Complete work** | **P1-** Complete work related documents and procedures  **P2-** Perform final quality inspection  **P3-** Clean up and store tools, equipment and materials | **K1-** Importance of documentation; customer care procedures and techniques  **K2-** Importance of quality; handing over to client  **K3-** Waste disposal procedures; care of tools and equipment |